

CLAIMS

1. A compressor comprising

a reed valve (41) which opens and closes a discharge port (29) of a compressor

5 mechanism (20) and includes a flat part (41a) and a protruding part (41b) formed at a distal end of the flat part (41a) to come in and out of the discharge port (29), wherein

the shape of the discharge port (29) and the shape of the reed valve (41) are determined to satisfy

$$S2 \geq S1 \geq S0$$

10 wherein $S0$ is an opening area of an inlet (29a) of the discharge port (29),

$S1$ is the smallest sectional area of a flow passage formed between the protruding part (41b) and the discharge port (29) when the reed valve (41) is lifted to the maximum level and

15 $S2$ is the smallest sectional area of a flow passage formed between the flat part (41a) and the outer periphery of an outlet (29b) of the discharge port (29) when the reed valve (41) is lifted to the maximum level.

2. The compressor of claim 1, wherein

the discharge port (29) is tapered from the outlet (29b) to the inlet (29a).

20

3. The compressor of claim 1 or 2, wherein

a seat (22b) is formed at the outer periphery of the outlet (29b) of the discharge port (29) such that the seat (22b) contacts the flat part (41a).